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Helping Gail w/ subcloning

Looked at the cells.

- (c) Yesterday's transfections show made a marvelous recovery. They are nearly confluent & look great. The only exception is plates 2A & 2B. They show toxicity - probably due to the high lipofectin concentration. Time of lipofectin may also be an issue.
- (b) P34 & P26 cells look good - ready to pass Monday.

Gail appears to have converged in PAE1 sp1A. To combine

- grow up clone
- more restriction sites
- transfect LNCaP for p-gal activity.

Pass cells & set-up new plates

20 x 6 cm plates for tomorrow

9 x 150 cm boxes for freezing down

3 x 150 cm boxes for carrying

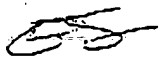
Gail is making minis and doing restriction digests. She has 6 BstII clones for HindIII, 22 clones of 6 kb HindIII PSC in CN70 (p-gal in Bst).

→ Made 10 ml of 10x ligation (without ATP) per protocol in computer - report of 10% 2 med of ligation & project. Sterile filtered. Froze ~~that~~ 1 ml aliquots

5.0 ml 1M Tris (7.6)
1.0 ml 1M MgCl₂
1.0 ml 0.5M DTT
50 µl 10 mg/ml Bst
2.95 ml H₂O

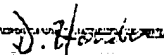
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CN10 - PSE - US
CN71 - CMV HSVtk

abund

PSC
580bp

AGENDA

- I. Characterization of PSE - Eric, Lena, Joe
5' end and 3' end of PSE defined within 200 bp
ARE within the Cla I site required
Sequencing
Thus, at least three elements: ARE, Left and Right
within PSE

Movement and orientation of minimal PSE - Lena (4 of 4)
Are these tested in LNCaP yet?

Joe has sequenced my (CN42) Ck1 (Kramer) CN68

Get Shift with 200 bp segments across PSE - Eric

fragment which spans the 5' end of the XbaI site. Linker protein from

- II. Transgenic Mice Constructs - Gall, Dan
Gall 1. 6kb driving β -gal (need 6 kb in CN70, β -gal in BS)
Lena 2. minimal enhancer driving β -gal
we have it 3. 6kb driving DT-A (CN45) Madrasa veta mouse

- III. Adenovirus Constructs - Gall, Lena, Dan

1. PSE minimal enhancer driving β -gal
2. PSE minimal enhancer driving CAT
3. PSE minimal enhancer driving DT-A

4. CMV driving HSV-tk done } for competent Y, if we add
5. CMV driving cytosine deaminase } drug we can kill virus
6. CMV driving β -gal positive control

Construction of Adenovirus vector

AE1sp1A AE1sp1B, BHG10, BHG11, BHG12, FG140, PXC1,
PABS.4

AE1A & BHG10
break virus within
Co transfection & grow
recombined in cells.

- IV. Tissue Specificity of Minimal Enhancer - InVivo - Eric and Joe
Results good result of last week being reported this week

- V. Tissue Specificity of PSE - InVivo - Eric, Joe, Lena

Direct Injection of DNA into Tumors } exp. too big exp
Technique of Intra-tumor injection } exp ongoing
CAT Assay

- VI. Liposomes - Henry

Experiments

Commercial vs. Jensen low vs. Dan lower

Use commercial cells for next ligations

4/15 Cory Gorman from Megalabs talking about Liposomes
Henry in Tucson Mon. & Tues.

Check lunch schedule of Conf. room for virus lesson

check 3H allophanol - Delivering today! Friday lunch

Q for Eric IPA salt out. for removal of Eth Br. from CsCl/Eth Br./DNA from

Water solvents IPA - if water
is B. high salt & IPA is in salt
Water cannot solvate IPA
& you get an interface

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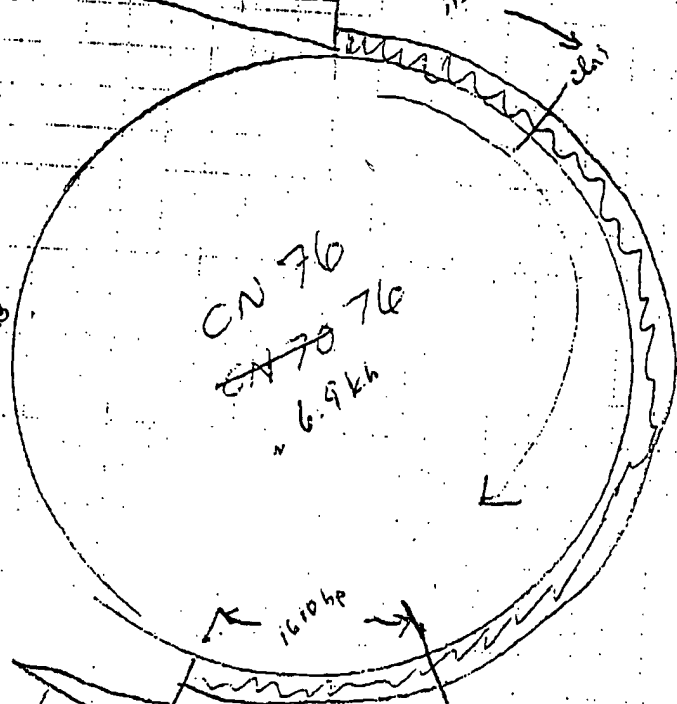
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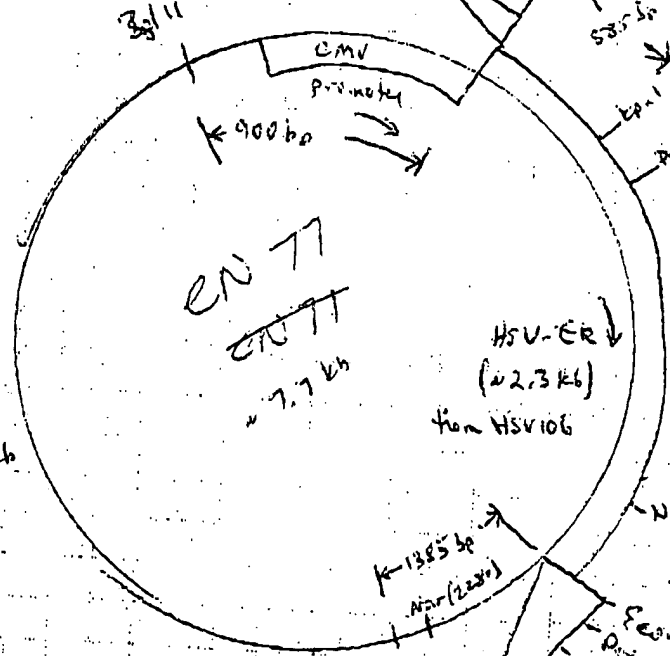
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insert from pCMV A
 β-galactosidase
 = 3832 bp
 on XbaI fragment
 is promoterless

BstXI
 354X2 SmaI
 EcoI NheI
 KpnI

SacI



pDNA3 5.4 kb

CN 77
 CN 77
 ~ 7.7 kb

HSV-ER
 (2.3 kb)
 from HSV106

K-1385 bp
 NarI (233)

EcoRI
 (918)

number in () etc
 designation in pDNA3

cmv promoter driving
 HSV-ta in pDNA3

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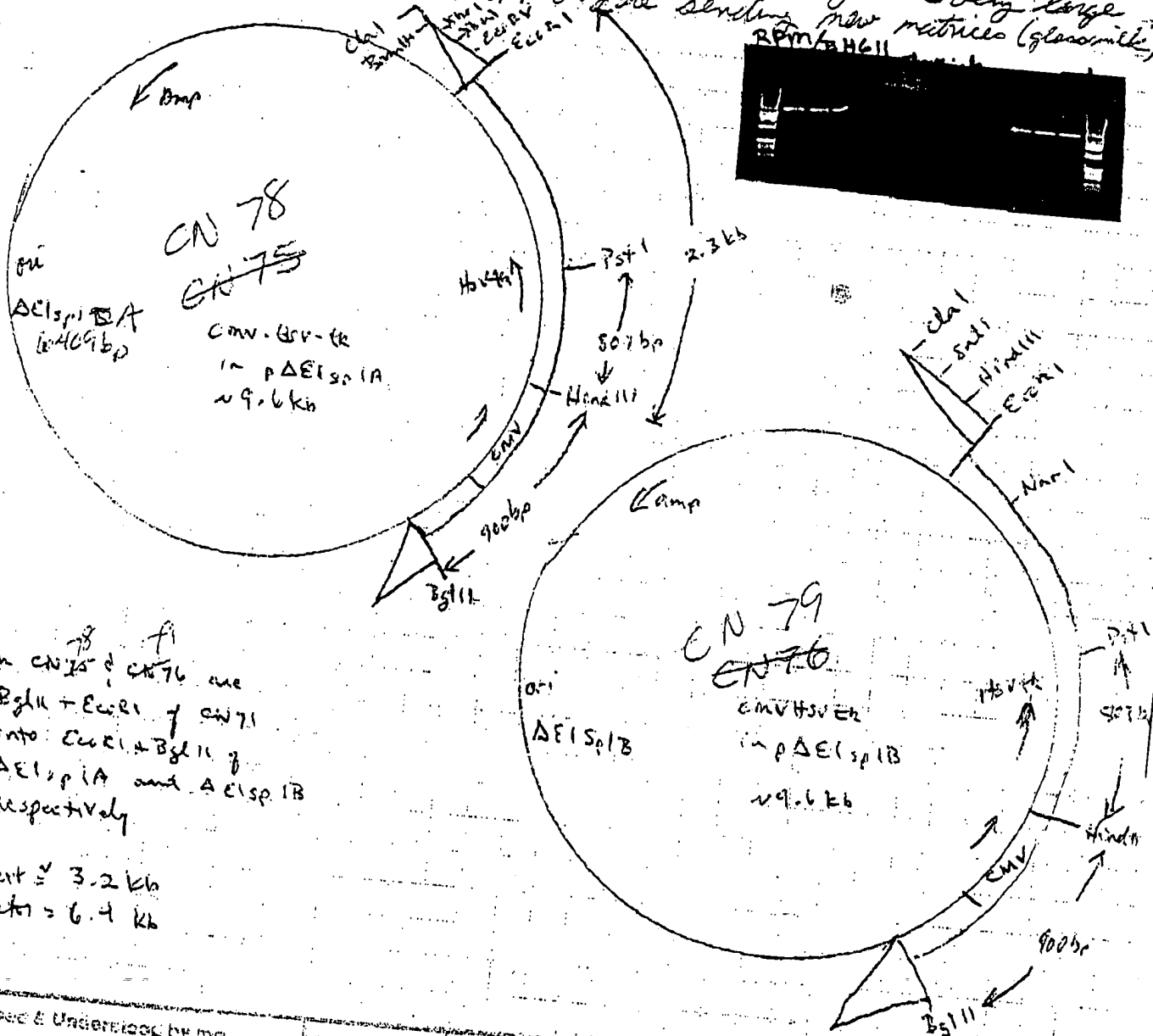
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Don has grown BHG-11 another A, B, C
cultures to HindIII screen.

I am now prepping 1.5 ml of
8ul DNA
1ul #2 10x Buffer
1ul HindIII 2.5ul No luck

I called Bio 101 with regard to the problems I'm having with very large
plasmids in their RPM kit. They are sending new matrices (glass milk)
RPM BHG11



Both CN 78 & CN 79 are
BglII + EcoRI of CN 71
into $\Delta E1sp1A$ and $\Delta E1sp1B$
respectively

Insert = 3.2 kb
Vector = 6.4 kb

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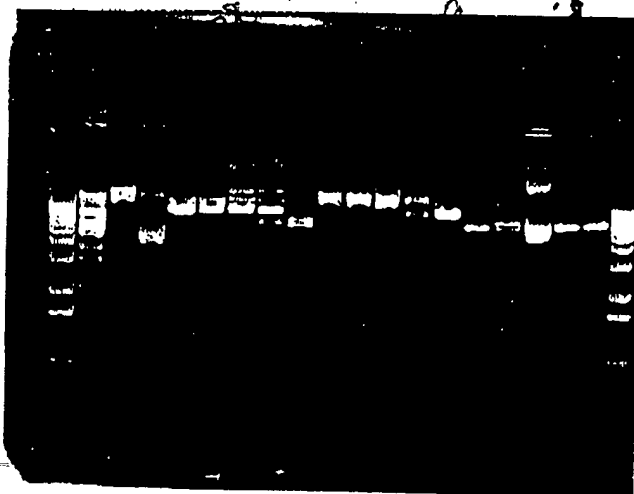
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Concentrations	OD260	OD280	260/280	Conc	Yield
FL140 16.122	0.076	0.036	2.1	380 µg/ml	152 µg
⁷⁸ CN 78-1 16.122	0.015	0.002	7.5	75 µg/ml	15 µg
⁷⁸ CN 78-2 16.122	0.437	0.208	2.1	22 µg/ml	437 µg
⁷⁹ CN 79-1 16.122	0.022	0.012	1.8	110 µg/ml	22 µg
⁷⁹ CN 79-2 16.122	0.264	0.133	2	1.3 µg/ml	264 µg

⁷⁸
CN 78 looks fine. 1X cut of HindIII, EcoRI, BglII, EcoRI+BglII given insert and HindIII cuts the insert into 2.3 kb if 900 bp as it should

⁷⁹
CN 79 may be fine but: it appears NruI and HindIII (lanes 10 & 11) were omitted: ie. no cut, but EcoRI cuts 1X, BglII cuts 1X, EcoRI+BglII give the 3.2 kb insert, and HindIII cuts the insert into 2-3 (visible in photo) 900 (visible by eye but not in photo) as it should



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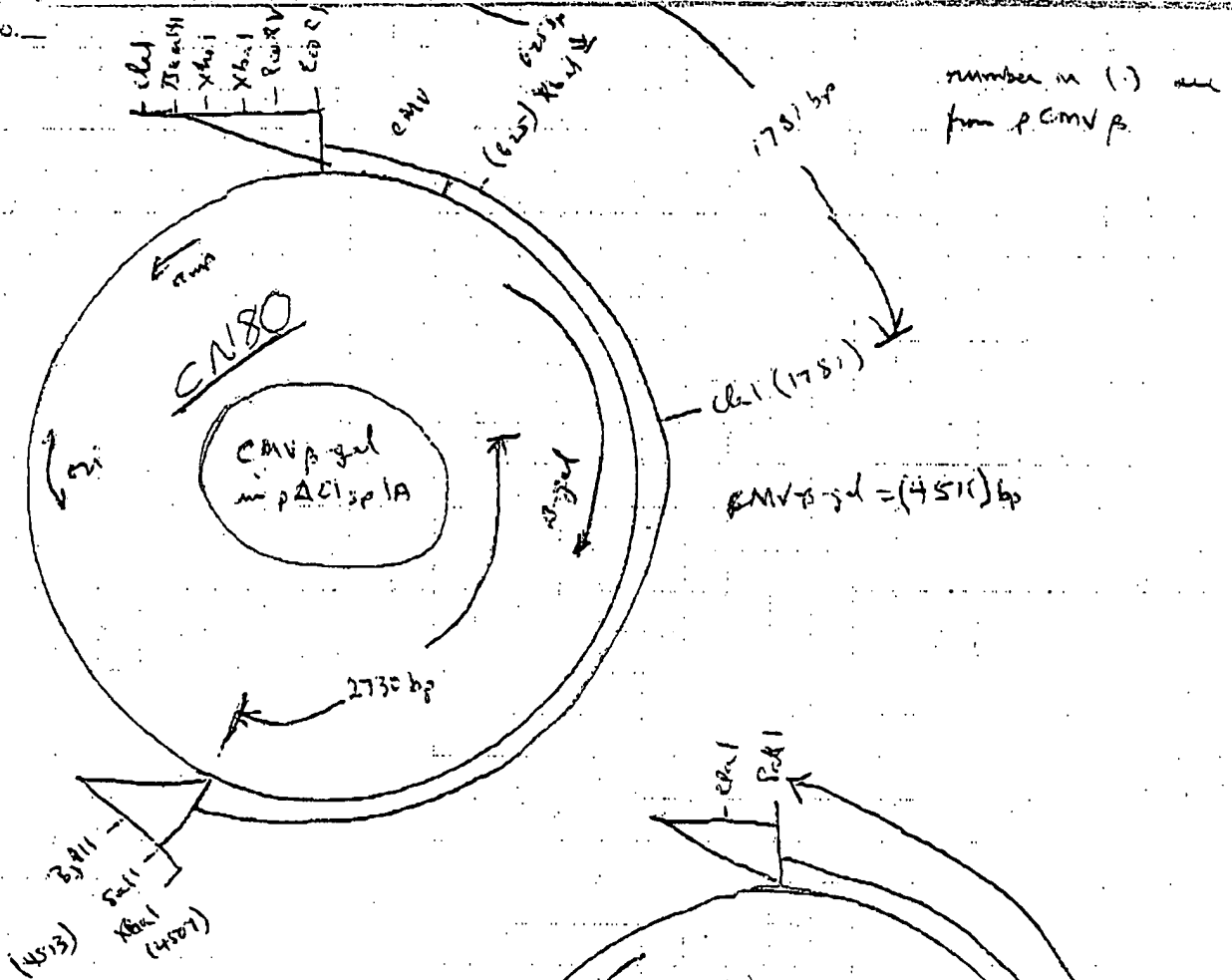
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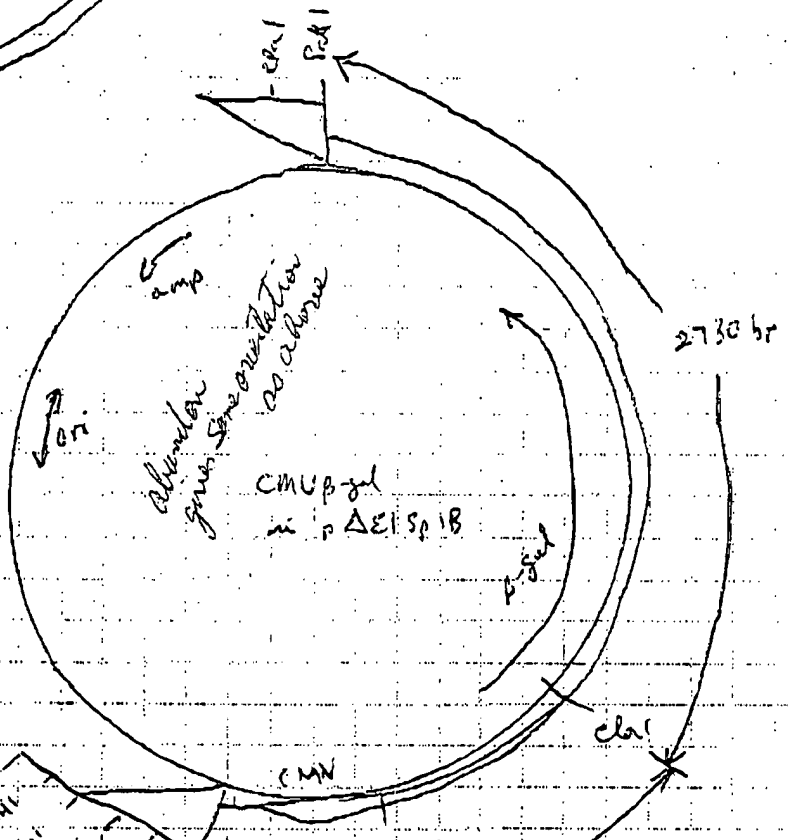
pΔE1sp1A



screen w/ clat

B

pΔE1sp1B



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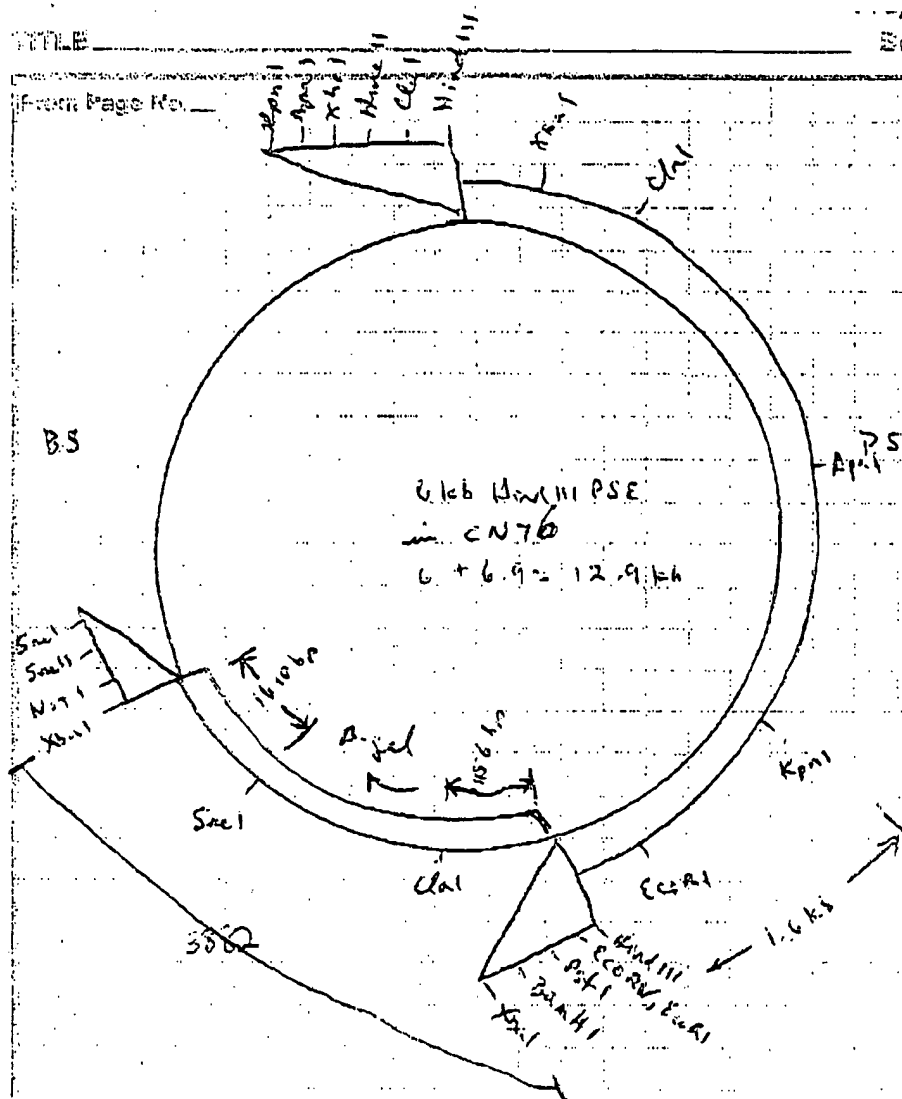
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CONCLUSIONS

Life span Page No. _____



Abel 1 $\pm 0.5, 3.9, \cancel{2.4}$
 $- 0.5, 3.9, \cancel{2.4}$

$$\begin{array}{r} \text{Cl}_2 + 1,8,2,7,6 + 5,4,5,6 \\ - 3,4,2,5,6 \end{array}$$

Apal + 3.2, 9.7

Kpn1 + 4,4,8.5

- 116, 113.

75E (a 6 1/2)

44-111 - 660⁺ 6782

Зачека w / kpi

if correct orientation
should get ~ 4.4 kb
if opposite orientation
should get ~ 1.6 kb

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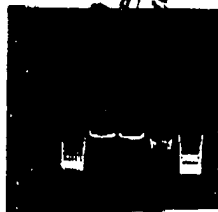
Don, picked more 2nd cultures of lig 16.121.3 this weekend. Of the 6 cultures I minced this weekend I was correct but wrong on quantity. There is a chance we will get something out of these 22. Minus RPM & Kp1 out 4ml dH₂O.

4 μ l dH₂O
1 μ l 10xBSA
1 μ l 10xATC1
1 μ l KpnI 20/ μ l
3 μ l DNA

mini RPM to TBamp cultures of BHK-21 - 2 dif plates / commercial DNA / from previously good mini. These were pulsed on Seta expanded to 10ml in one. Don collected 1/4 ml for minis & fed ea culture 10ml TBamp.

16, 12, 2, 2, 2, 2
2, 2, 2, 2, 2, 2

Gene get Vectors & Inserts 16.123



C. 0.70 H. 4.11 μ g H4FB back equal 2 = 1/15 of 1 μ g loaded
 For 1 μ g/15 = 0.066... C. 0.067 μ g/2 μ l = 33 ng/ μ l

Plan of old RE digest of SV CAT 16.78 see ^{plants} 15.123 this prep look good

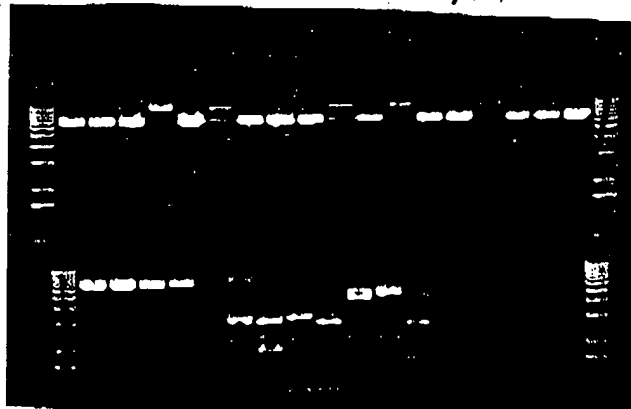
OTD 260 0.550

ap 280 0.521

260/260 1.7

conc = 2.8 mg/mL

Don't ~~forget~~ ^{remember} digesting of No. 1263 above
also 35.5 shows small band
at 4.9 but it is very light
I don't know whether to believe
it or not. I will do more
cuts tomorrow.



Te-Flag Inc

believed to be understood by me.

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